

FIG. 1

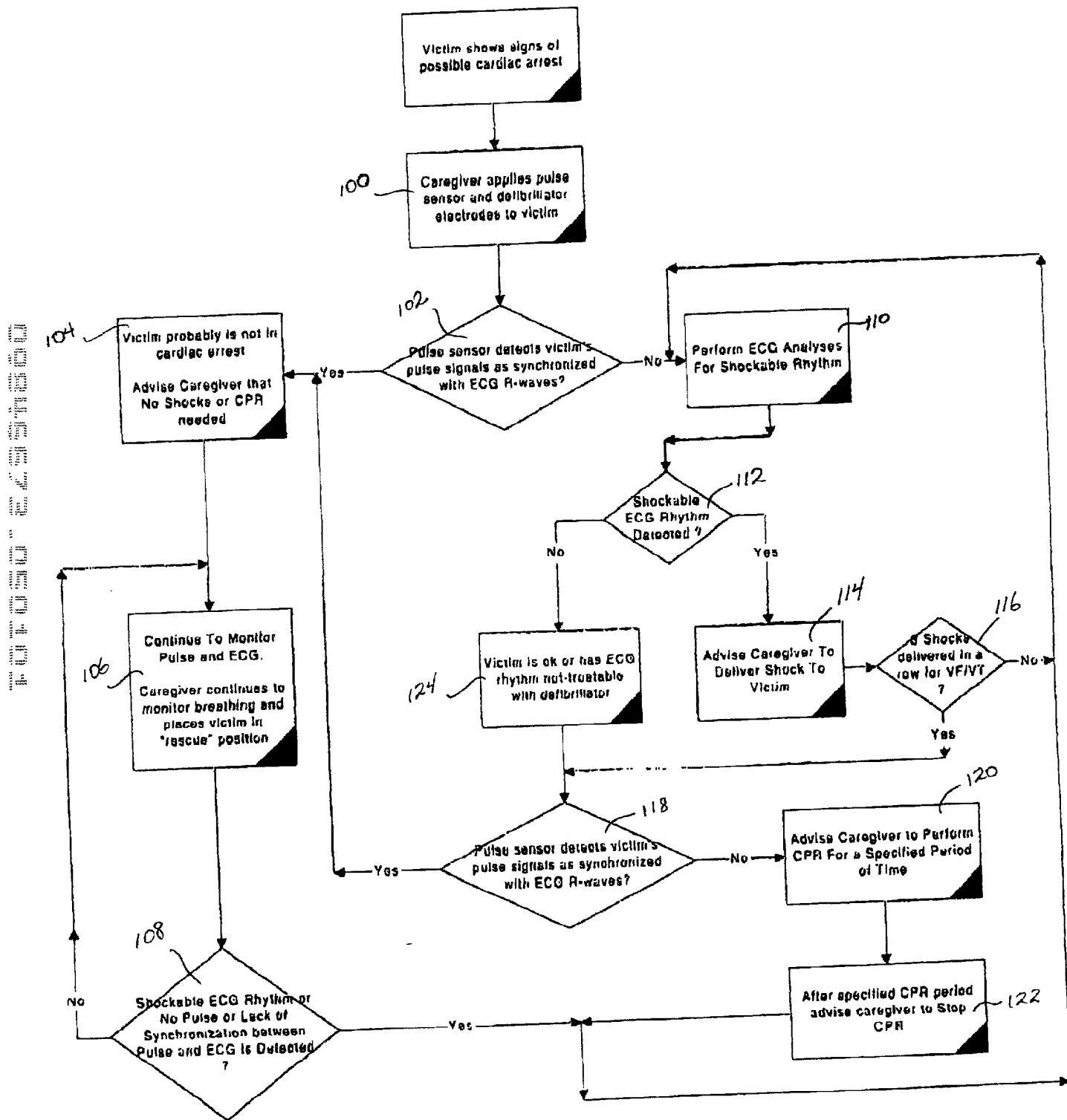
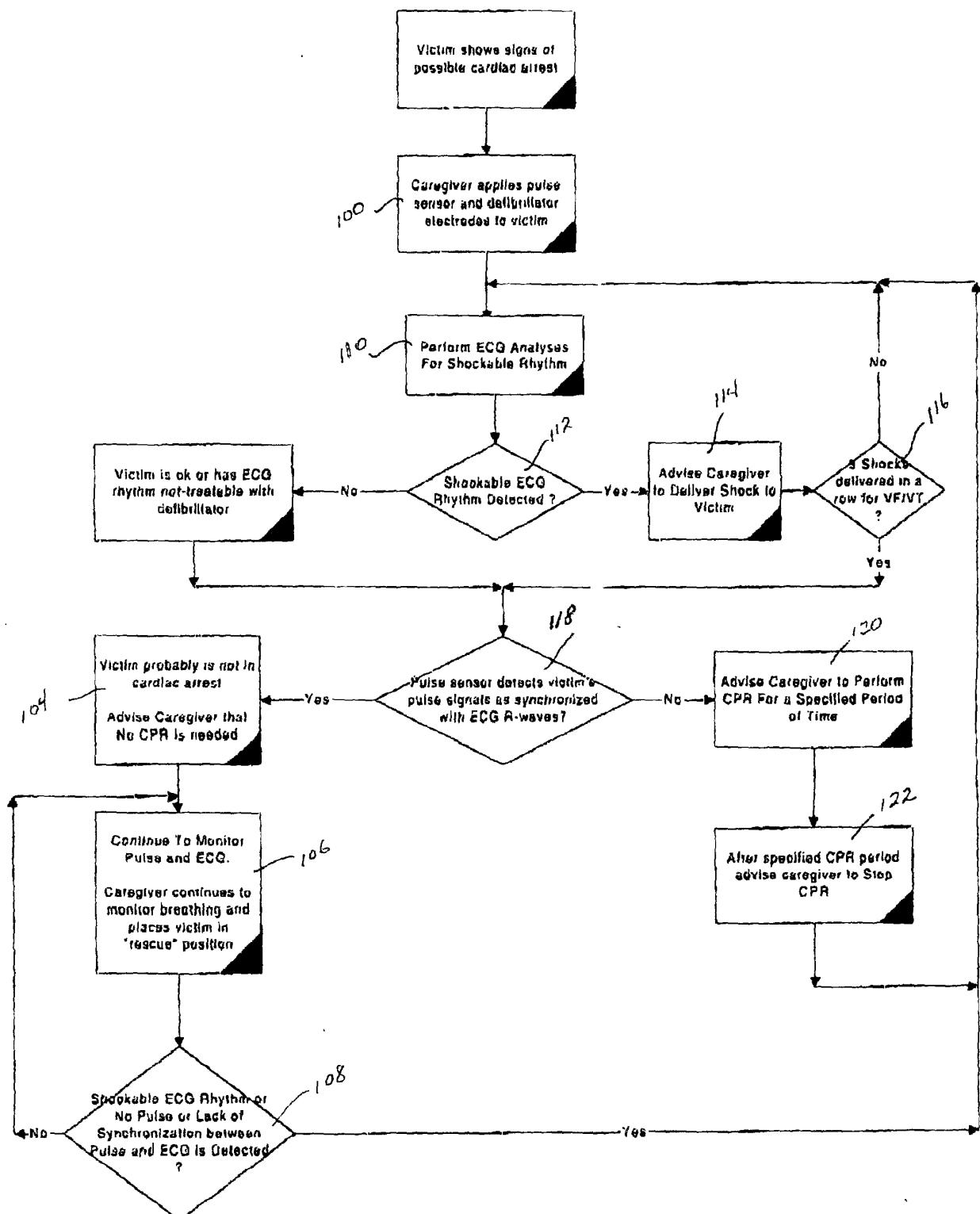


FIG. 2



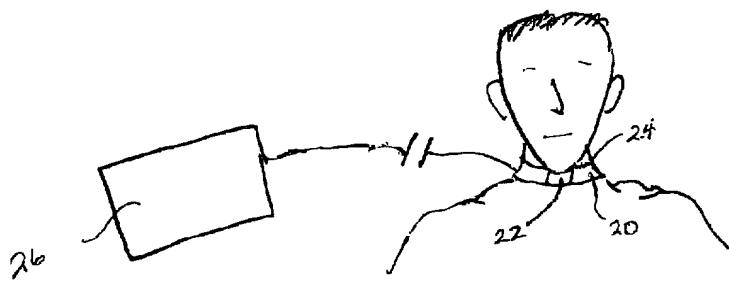


FIG. 3

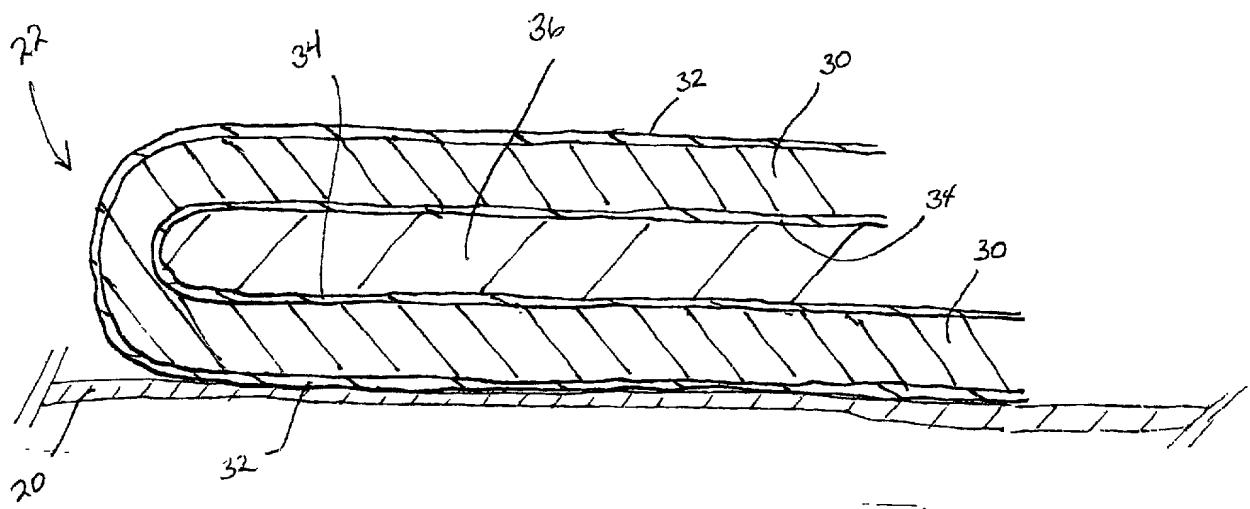


FIG. 4

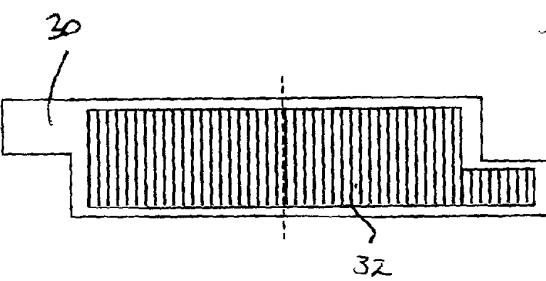


FIG. 4A

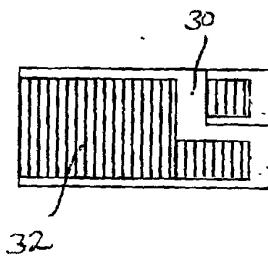


FIG. 4B

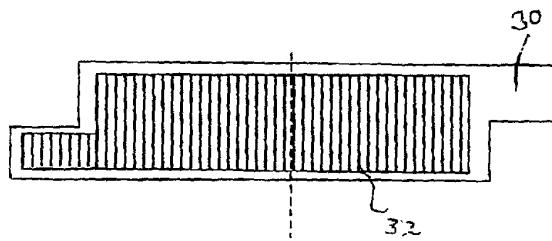


FIG. 4C

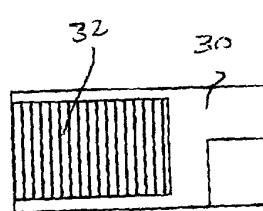


FIG. 4D

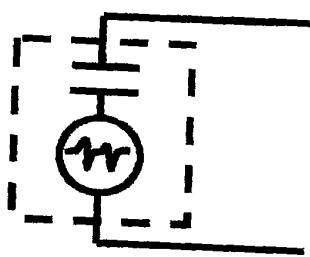


FIG. 5

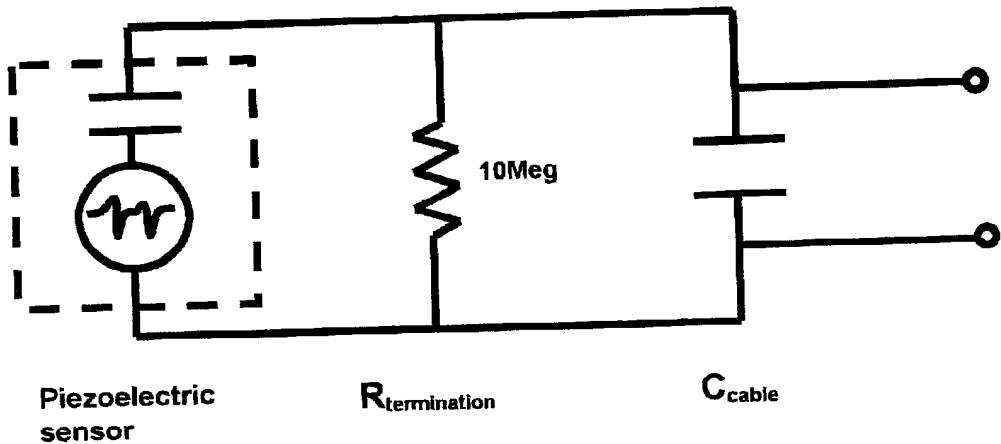


FIG. 6

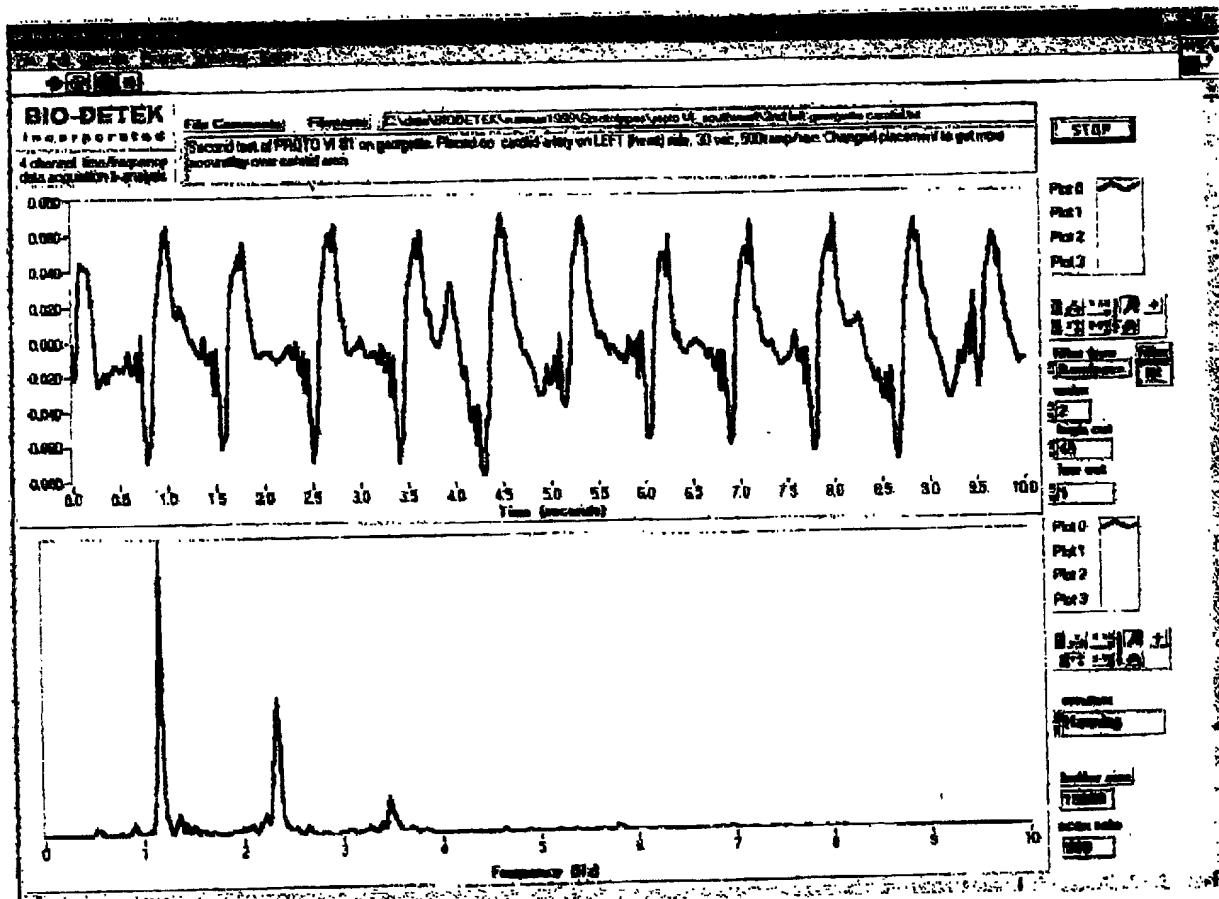
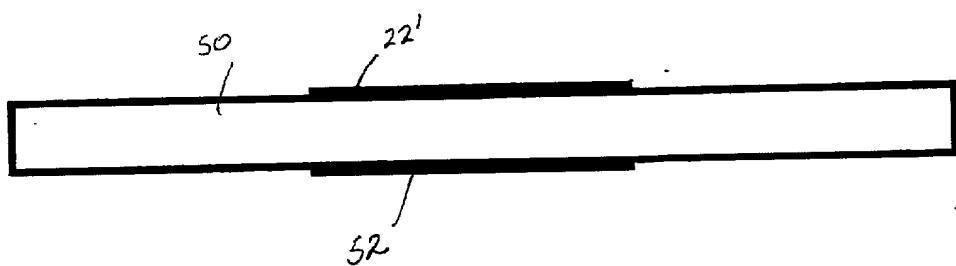
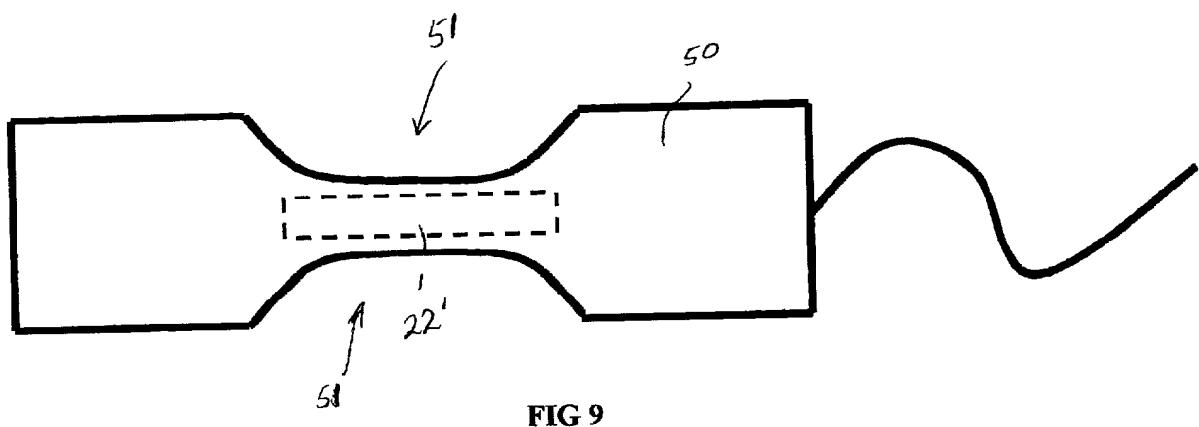
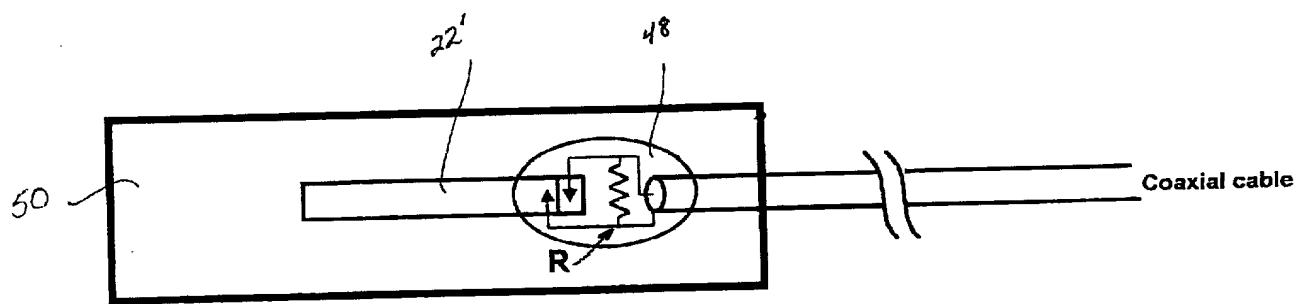


FIG. 7



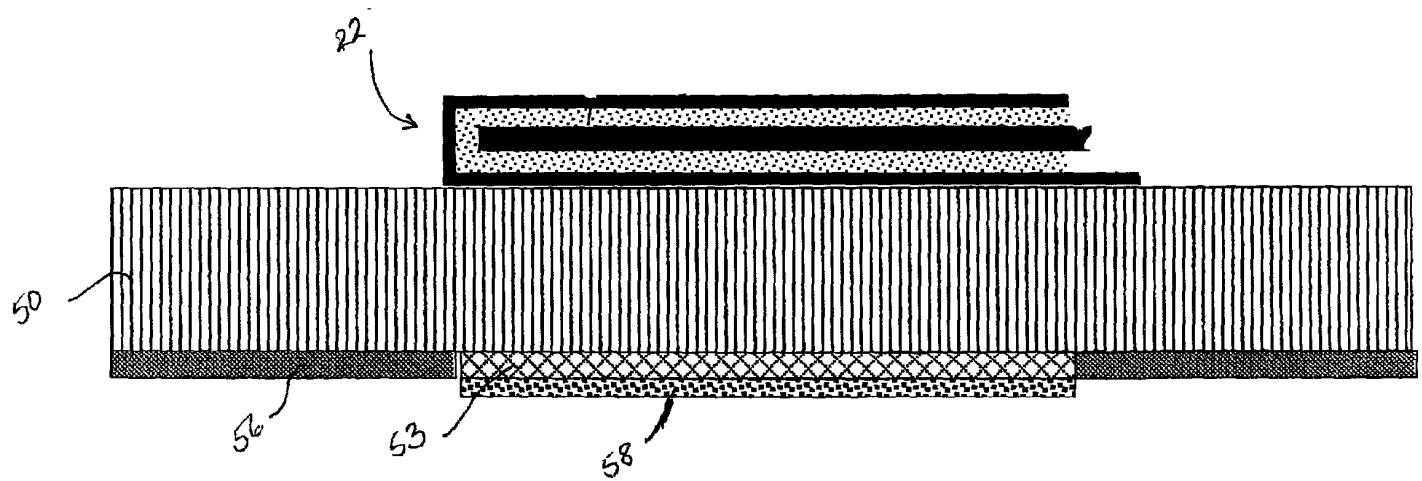


FIG 11

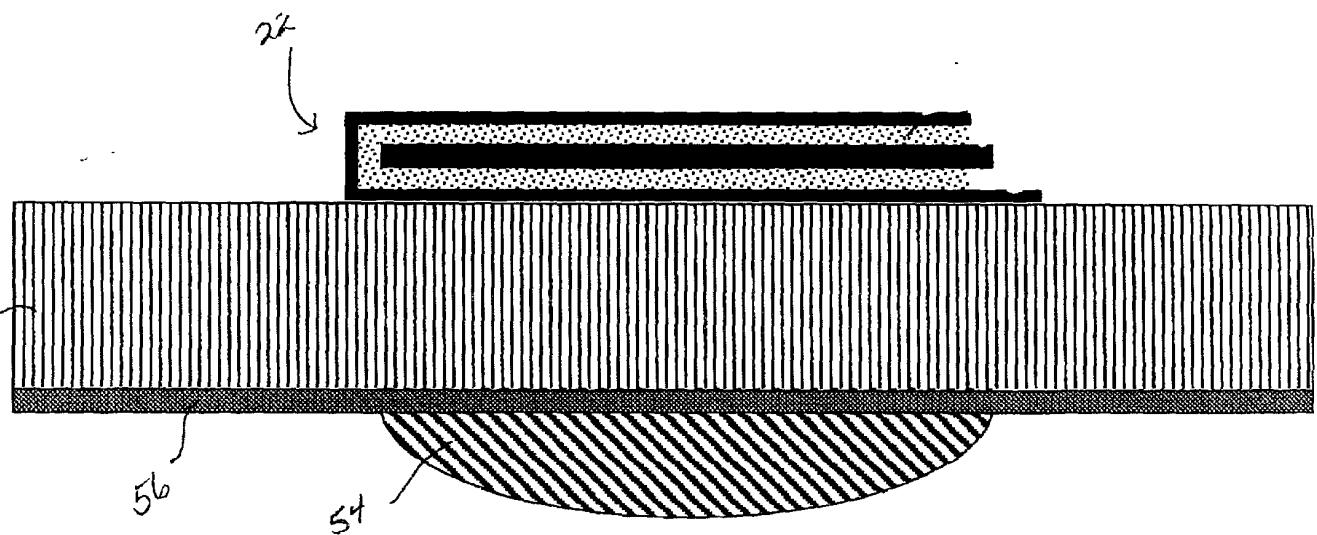
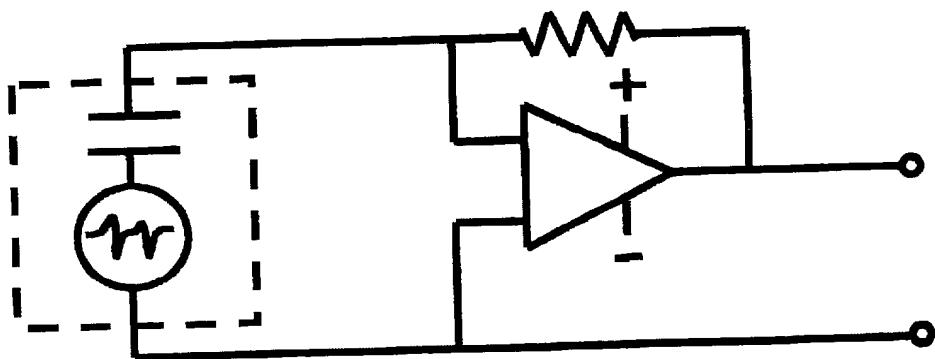


FIG 12

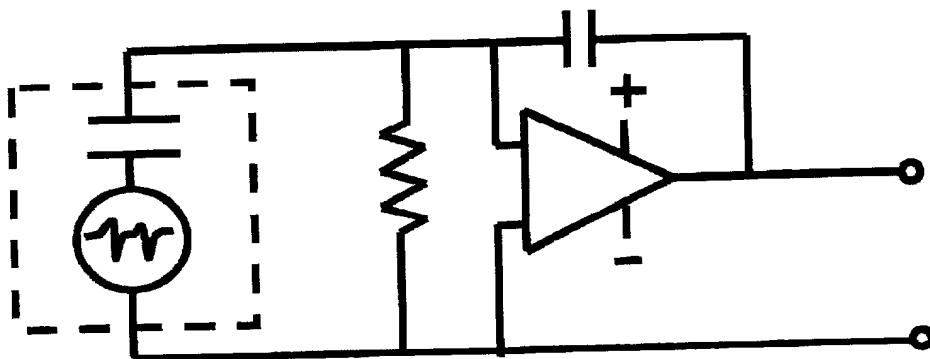
Transimpedance Amplifier



Piezoelectric
sensor

FIG 13

Integration Amplifier



Piezoelectric
sensor

FIG 14

Voltage Amplifier

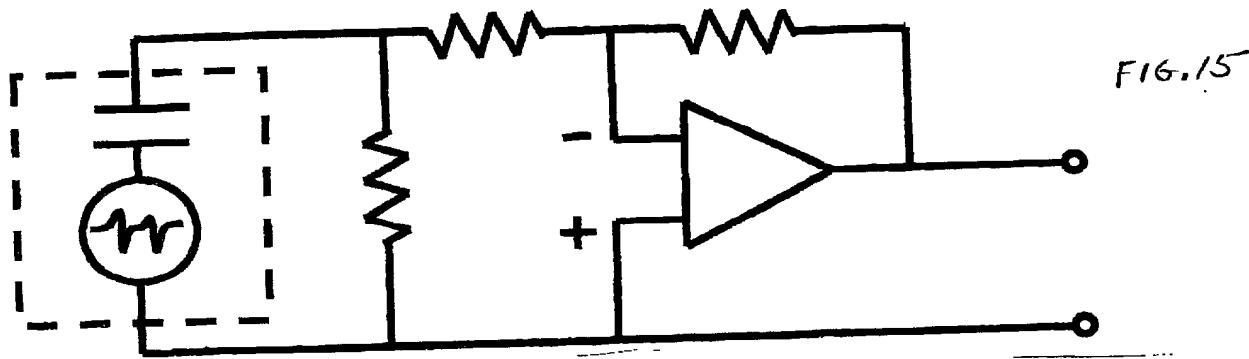


FIG. 15